#### DOCUMENT RESUME

ED 139 976

CE 010 997

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TITLE

American Industries. Performance Objectives. Volume

1.

INSTITUTION PUB DATE

Duval County School Board, Jacksonville, Fla.

Jul 75

NOTE

175p.; For a related document see CE 010 989

EDRS PRICE

MF-\$0.83 HC-\$8.69 Plus Postage.

DESCRIPTORS

Agricultural Education; \*Agriculture; \*Be.avioral
Objectives; \*Career Exploration; \*Construction
Industry; \*Criterion Referenced Tests; Curriculum
Guides; Industrial Education; \*Industry; Junior High
Schools; Shop Curriculum; Student Evaluation; Trade

and Industrial Education

IDENTIFIERS

United States

#### ABSTRACT

Several intermediate performance objectives and corresponding criterion measures are listed for each of the three categories (American Industries Orientation, Agriculture, and Construction) included in this first of a two-volume course guide on American industries. The materials were developed for a 9- to 12-week course for seventh grade students to acquaint them with the concepts of major American industrial enterprises. American Industries Orientation includes five terminal objective sections: Safety, Criterion Measures, Elements of Industry, Planning, and Measurements. Agriculture includes seven terminal objective sections: Occupations, Tools, Turfgrass, Fertilizing, Vegetable Gardening and Container Growing, Conservation, and Horticulture Maintenance. Construction includes six terminal objective sections: Occupations, Characteristics of Wood Materials, Hand Tools, Wood Joining and Fastening, Finishing, and Mass Production. Information for instructors is also included. (This manual and 54 others were developed for various secondary level vocational courses using the System Approach for Education (SAFE) guidelines.) (HD)



# PERFORMANCE OBJECTIVES AMBRICAN INCLOSITES INCLOSITES



O DUVAL COUNTY SCHOOL BOARD

Volume 1

## DUVAL COUNTY PUBLIC SCHOOLS July, 1975

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#### · ACKNOWLEDGEMENTS ·

This manual has been developed following guidelines established by S. A. F. E. (System Approach for Education) training program.

Recognition and appreciation are extended to the following educators who have assisted in the preparation of this manual.

Mr. David A. Rigsby, Director of Vocational Education Mr. Lowell T. Hudson, Supervisor of Industrial Arts

The following educators participated as writers of this manual.

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\*Chairman

Manual prepared by . . . . Duval County Print Shops

Typist . . . . Mrs. Nancy Turner



#### MAKE UP AND USE OF THIS MANUAL

#### Definitions:

<u>Terminal Performance Objectives</u> - are objectives referring to a behavior, knowledge, or skill you want the learner to demonstrate at the end of a particular unit or section. They are written in gross, overall terms.

Intermediate Performance Objectives—are sub-functions of terminal objectives referring to a behavior, knowledge or skill you want the learner to demonstrate along the way towards mastery of the terminal objectives. They are written in specific terms.

<u>Criterion Evaluation</u> - are the actual tests of evaluation exactly as it will be presented to the learner to see if he has met the objectives.

Method Media Analysis - specifically refers to personnel resources, tools, vehicles, software, and hardware - the physical hows for implementing the methods or ways of curriculum implementation. (Each media center is different in the materials available to assist the instructor in lecturing and demonstrating. Therefore, the individual instructor must research the school's media center for the appropriate materials to be used.)

Levels of Performance - The levels of performance (how well it must be done) given in this manual have been arrived at by the authors through past experiences and by consultation with other Industrial Arts teachers in Duval County. These levels are subject to change after try out. They are written as average levels of attainment that all students should achieve. This by no means limits the instructor, who can teach as far above the level as possible.

These objectives are minimal - The objectives in this manual represent the basic "need to know" knowledge and skills that should be attainable by any student that meets the prerequisites of the courses.

Course Prerequisites - The prerequisites for these courses may need revision. For example, if your course calls for a certain skills in reading ability and you are getting students below this ability that cannot perform up the course standards, then a prerequisite of "must be able to read at the \_\_\_\_\_ level" may be needed.



#### INTRODUCTION

This manual of Performance Objectives has been re-written and revised from the original manual introduced for the 1972-1973 school year. A pre and post examination has been added to test the level of attainment of each learner before any instruction and to be used again at the completion of the course as a final examination. It also includes Learning Steps, Criterion Evaluation and Methods-Media Sections.

Your own teaching methods and equipment may change the chronological order in which the objectives are here-in presented. Also, it is not necessary to use a specific objective as written as each may be altered to fit your own particular situation. It should be your responsibility to cover-the material given so as to insure course content and uniformity of instruction throughout the system.

The Media of instruction for each Intermediate Performance Objective should be from the State of Florida Adopted Textbook listings and your should select those to which you have access. Any additional materials should be used at your own discretion.

In revising this edition from its original form, an attempt has been made to eliminate as much of the mechanics of teaching as possible. Employ your own methods and use the equipment you have available. The emphasis is placed on learning the core of each particular area and not on how it should be taught. This manual is not intended to dictate nor limit your program but should be used as a guide for the course for which it is intended.

The Time Requirements section of each Learning Step has been omitted so that you can make your own entries for future reference.

Lowell T. Hudson Supervisor of Industrial Arts Duval County School Board



#### Instructors Information

This manual is written on a twelve week basis. It is realized by the writers that time length allotments vary in different schools when using the wheel type course coverage. You should cover as much material as your particular situation allows and intergrate your own teaching methods as you feel warrented and necessary. This manual emphasizes hands on activities.

An attempt has been made to eliminate tedious oral and written exercises whereever possible. Suggestions are made and examples given to emphasize and enforce the practical application of each objective but your own personal ideas, examples, and projects may be substituted to obtain the desired results.

The performance objectives in this manual cover the accreditation standards prescribed by the State Department of Education. Selection of the areas to be explored is determined by your own situation but each learner is expected to meet the minimal requirements of the State.

Orientation to American Industry is treated as a unit and encompasses all areas of the manual. Utilize it as it pertains to each area.



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\* Mr. Paul Goldsbury, Terry Parker Sr. High School

Mr. Larry Hilbert, Paxon Sr. High School

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Typist ...... Helen Watson

\* Chairman



## COURSE DESCRIPTION

#### AMERICAN INDUSTRIES

Accreditator No. 5890 Grade Level - 7th Course Length - 9-12 weeks

A study of the concepts of major American Industrial enterprises. The student will exhibit a predetermined acceptable degree of Industrial literacy and knowledge in the following areas:

- a) An insight into occupational goals and selection.
- Demonstrate and apply skills in the use of hand and basic power tools and equipment.
- Experience laboratory situations in mass production, personnel organization, material selection, forming and finishing.
- d) Demonstrate problem solving abilities through research, experimentation and development.
- e) Exhibit safe laboratory practices as they relate to school, home and community.



#### Instructors Information

This manual is written on a twelve week basis. It is realized by the writers that time length allotments vary in different schools when using the wheel type course coverage. You should cover as much material as your particular situation allows and intergrate your own teaching methods as you feel warranted and necessary. This manual emphasizes hands on activities.

An attempt has been made to eliminate tedious oral and written exercises whereever possible. Suggestions are made and examples given to emphasize and enforce the practical application of each objective but your own personal ideas, examples, and projects may be substituted to obtain the desired results.

The performance objectives in this manual cover the accreditation standards prescribed by the State Department of Education. Selection of the areas to be explored is determined by your own situation but each learner is expected to meet the minimal requirements of the State.

Orientation to American Industry is treated as a unit and encompasses all areas of the manual. Utilize it as it pertains to each area.



## Instructors Information

It is suggested that to properly instruct agriculture, a starting point would be a group project combining Construction and Agriculture classes into a group to construct an outside greenhouse. It should be of simple construction. It can be built using 2 x 4's and corrugated fiber glass sheets or 2 x 4's (or bent 3/4 inch pipe) covered with 2 inch chicken wire and rolled polyehtylene sheeting. The size and meterials to be used would be restricted by space available and cost factors. Suggested space dimensions would be 12 ft. x 12 ft. square frame with a 7 ft. head height. It should have a closable access door and upper ventilation outlets at both ends. Commercial designs and pre-fabricated houses are available but cost is prohibitive.



COURSE	INDUSTRIES

# (O R I E N T A T I O N)

TERMINAL PERFORMANCE		
OBJECTIVE NO. 1.0	· ,	Safety

The learner will list in writing the general safety rules of the American Industries laboratories and physically demonstrate his ability and willingness to practice these rules. He will do this with 95% proficiency.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1.1	The learner will write the basic safety rules of the American Industries laboratory.	1.1.1	Write 12 of the 15 general shop safety rules.  1) No horseplay 2) Wear protective clothing 3) Know your tools and equipment before using them 4) Use the proper tool 5) When in doubt, ask the instructor 6) Follow instructions 7) Keep the shop and work areas clean 8) Report broken or unsafe tools 9) Use common sense 10) Carry tools with the cutting points down and away from you 11) Wear safety eye protection 12) Know where the fire extinguishers are located 13) Ask permission before operating any equipment 14) Report all accidents no matter how slight 15) Remember the A B C 's of Safety. ALWAYS BE CAREFUL
1.2	Demonstrate physically your ability to practice the general Safety rules of the American Industries laboratory.	1.2.1	You will be observed and graded daily on your ability to practice the general shop safety rules.  12

COURSE	AMERICAN	INDUSTRIES	

## (ORIENTATION)

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Criterion Measures

The learner will demonstrate in wiriting, with 75% proficiency, his understanding of the Criterion Measures of the American Industries laboratories.

	INTERMEDIATE	ļ · · · · -	
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
		ĺ	
2.1	Given the following grades, figure a 4 weeks total point average	2.1.1	Write the total points earned average for the following
	a 4 weeks total point average		grade-point ratio A = 4
	A - B - E - D - C	ł	A = 4 B = 3
		ļ	C = 2
1		ł	D = 1
1		ł	E = 0
			10 = total points earned
2.2	Figure the final grade average from the total points earned in I.P.O.	2.2.1	Write the final grade average using the following formula.
	2.1		Total points number grades
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COURSE	AMERICAN	INDUSTRIES	

## (ORIENTATION)

TERMINAL	PERF	RMANCE	
OBJECTIVE	NO.	3.0	

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The learner, with 70% proficiency, will design a manufacturing flow chart and will, in writing, define the elements of industry. (This relates to each area offering at the time it is offered.)

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
3.1	Design and draw a chart of the elements of Industry	3.1.1	Using the following facets of Industrial production, draw a chart of the following elements of industry
			<ol> <li>Research &amp; development</li> <li>Production tooling</li> <li>Production control</li> <li>Duality control</li> <li>Personnel management</li> <li>Manufacturing</li> <li>Marketing</li> </ol>
3.2	Define the responsibilities of each element of industry.	3.2.1	On the chart drawn in 3.1.1 write a definition of each element.
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COURSE	AMERICAN	INDUSTRIES	

## (O R I E N T A T I O N)

TERMINAL PERFORMANCE	
OBJECTIVE NO. 4.0	Planning

The learner will write a Bill of Materials list and incorporate a steps of procedure guideline for production of a finished project. He will do this with 80% proficiency.

	INTERMEDIATE	- 1	
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
4.1	Given a planning sheet, enter in the Bill of Materials section.	4.1.1	Write in the number, size name, and materials of the pieces needed to complete the Bill of Materials section of the planning sheet.
4.2	Complete the tools and machines section of the planning sheet.	4.2.1	Write in the tools and machines to be used in the <u>Tools</u> and <u>Machines</u> section of the planning sheet.
4.3	Complete the Steps of Procedure section of the planning sheet.	4.3.1	Write in the steps of completion as they are to be followed in the completion of a project.
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## AMERICAN INDUSTRIES

## ORIENTATION

- 1.0 Safety
- 2.0 Criterion Measures
- 3.0 Elements of Industry
- 4.0 Planning
- 5.0 Measurements

## AMERICAN INDUSTRIES

## ORIENTATION

- 1.0 Safety
- 2.0 iterion Measures
- 3.0 Elements of Industry

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- 4.0 Planning
- 5.0 Measurements

COURSE	AMERICAN	INDUSTRIES

# (ORIENTATION)

TERMINAL PERFORMANCE	
OBJECTIVE NO. 1.0	Safety

The learner will list in writing the general safety rules of the American Industries laboratories and physically demonstrate his ability and willingness to practice these rules. He will do this with 95% proficiency.

	INTERMEDIATE		
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1.1	The learner will write the basic safety rules of the American Industries laboratory.	1.1.1	Write 12 of the 15 general shop safety rules.  1) No horseplay 2) Wear protective clothing 3) Know your tools and equipment before using them 4) Use the proper tool 5) When in doubt, ask the instructor 6) Follow instructions 7) Keep the shop and work areas clean 8) Report broken or unsafe tools 9) Use common sense 10) Carry tools with the cutting points down and away from you 11) Wear safety eye protection 12) Know where the fire extinguishers are located 13) Ask permission before operating any equipment 14) Report all accidents no matter how slight 15) Remember the A B C 's of Safety. ALWAYS BE CAREFUL
1.2	Demonstrate physically your ability to practice the general Safety rules of the American Industries laboratory.	1.2.1	You will be observed and graded daily on your ability to practice the general shop safety rules.
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# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 1.0

INTERIM PERFORMANCE OBJECTIVE 1.1

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WA	I PARATHO CONDO	310	CRITERION PERFORMANCE	170	LINNIAN LINNIAL ANT MARTAN	TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
1.1.1	Recall Safety Rules	1.1.1	Write twelve (12) of the fifteen (15) basic Shop Safety Rules.	1.1.1	Hand out Lecture Demonstration Extbook	s a Brist
110	December general cafety rules in	1.1.2	The the wiles of Chan Cafety as they	1.1.2	Lecture	
1.1.2	Recognize general safety rules in daily school and home activities.	1.1.6	Use the rules of Shop Safety as they apply to daily activities.	1.1.4	Demonstration	,
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COURSE	AMERICAN	INDUSTRIES	

# (ORIENTATION)

TERMINAL PERFORMANCE	
OBJECTIVE NO. 2.0	Criterion Measures

The learner will demonstrate in wiriting, with 75% profic ency, his understanding of the Criterion Measures of the American Industries laboratories.

NO.	Intermediate Performance objectives	NO.	COTTENTAL MEACIERS
NU.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	Given the following grades, figure a 4 weeks total point average  A - B - E - D - C	2.1.1	Write the total points earned average for the following grade-point ratio  A = 4 B = 3 C = 2 D = 1 E = 0  10 = total points earned
2.2	Figure the final grade average from the total points earned in I.P.O. 2.1	2.2.1	Write the final grade average using the following formula.  Total points $\stackrel{\leftarrow}{\cdot}$ number grades $10 \stackrel{\leftarrow}{\cdot} 5 = 2 (C)$
		21	<b>0-</b> 8

# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 2.0

INTERIM PERFORMANCE OBJECTIVE (2.1) - (2.2)

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***A	LEADUTUG GERRO		CRITERION PERFORMANCE			TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
2.1.1	Recall grades.	2.1.1	List in writing, the grades earned for a given period.			
2.1.2	Recall grade-point ratios.	2.1.1	Write the points earned in a given grading period.			
* /			95 <u>650</u> 44		±.	
2.2.1	Recall grade averaging.	2.2.1		2.2.1	Chalkboard	
r					Lecture School Policy Manual	
2.2.2	Average a grade.	2.2.2	Write a final grade average using the	2.2.2	Chalkboard	
			formula given in C. M. 2.2.1.	£1, 11 , 11	Lecture	
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COURSE AMERICAN INDUST	RIES
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# (ORIENTATION)

TERMINAL I	PERF(	DRMANCE	
OBJECTIVE	NO,	3.0	

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Elements of Industry

The learner, with 70% proficiency, will design a manufacturing flow chart and will, in writing, define the elements of industry. (This relates to each area offering at the time it is offered.)

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
3.1	Design and draw a chart of the elements of Industry,	3.1.1	
3.2	Define the responsibilities of each element of industry.	3.2.1	On the chart drawn in 3.1.1 write a definition of each element.
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# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 3.0

INTERIM PERFORMANCE OBJECTIVE (3,1) - (3,2)

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			CRITERION PERFORMANCE	l <u>.</u>	h	TIME
<u>NO.</u>	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
8.1.1	Recall the stages of Industrial production.	3.1.1	Write the stages of Industrial production.	3.1.1	Textbook Lecture	
8.1.2	Recall the graphic chart drawing.	3.1.2	Draw a chart to represent Industrial production stages.	3.1.2	Lecture	
3.2.1	Recall the elements of Industrial production.	3.2.1	Write the elements of Industrial production on a graphic chart.	3.2.1	Lecture Chalkboard Textbook Media Center material	
8.2.2	Recall the responsibilities of each stage of Industrial production.	3.2.2	Write, on the graphic of 3.2.1 C.M the responsibilities of each stage of Industrial production.	3.2.2	Lecture Chalkboard Textbook Media Center Material	
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COURSE	AMERICAN	INDUSTRIES
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# (ORIENTATION)

TERMINAL	PERFORM	<b>IANCE</b>	
OBJECTIVE	NO	4.0	

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The learner will write a Bill of Materials list and incorporate a steps of procedure—sheet—for production of a finished project. He will do this with 80% proficiency.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
4.1	Given a planning sheet, enter in the Bill of Materials section.	4.1.1	Write in the number, size, name, and materials of the pieces needed to complete the Bill of Materials section of the planning sheet.
4.2	Complete the tools and machines section of the planning sheet.	4.2.1	Write in the tools and machines to be used in the <u>Tools</u> and <u>Machines</u> section of the planning sheet.
4.3	Complete the Steps of Procedure section of the planning sheet.	4.3.1	Write in the steps of completion as they are to be followed in the completion of a project.
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# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 4.0

INTERIM PERFORMANCE OBJECTIVE  $(4.1) \cdot (4.2)$ 

***	ITADUTUS STEPS		CRITERION PERFORMANCE			TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
4.1.1	Identify a Bill of Materials sheet.	4.1.1	Identify orally, the Bill of Materials section of a planning sheet.	4.1.1	Lecture Hand out sheet	
4.1.2	Recall correct entries on a Bill of Materials sheet.	4.1.2	Write in the correct name, size and number on a Bill of Materials sheet.	4.1.2	Lecture Hand out Sheet	
4.2.1	Identify the tools and machine section of a planning sheet.	4.2.1	Identify orally, the tools and machine section of a planning sheet.	4.2.1	Lecture Hand out sheet	
4.2.2	Recall correct entries on a took and machine section a planning	4.2.2	Write in the proper tools and equipment.	4.2.2	Lecture Hand out sheet	
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## FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL	PERFORMANCE	OBJECTIVE	4.0	INTERIM PERFORM	NCE	OBJECTIVE	4	1.3
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			CRITERION PERFORMANCE			TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
4.3.1	Identify the steps of procedure section of a planning sheet.	4.3.1		4.3.1	Lecture Hand out sheet	
4.3,2	Recall correct entries in the pro- cedure section of a planning sheet.	4.3.2	Write in the steps of procedure in the proper section.	4.3.2	Lecture Hand out sheet	
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COURSE	AMERICAN INDUSTRIES
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## (ORIENTATION)

TERMINAL PERFORMANCE	
OBJECTIVE NO. 5.0	Measurements

The learner will define <u>measurement</u> and measuring instruments and demonstrate his ability to properly measure given items and apply this ability to a finished product. He will do this with 90% accuracy. (Use the measuring instruments listed as they apply to your particular area.)

	INTERMEDIATE	T	
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.1	Orally define <u>Measurement</u>	5.1.1	Measurement is the <u>comparison of something to a</u> standard unit.
5.2	Orally identify the following measuring instruments.  1) Balance 2) Ruler (folding and straight) 3) Ammeter 4) Micrometer 5) Steel measuring tape	<b>5.2</b> <sub>.</sub> 1	Identify the measiring instruments displayed.
5.3	Demonstrate the proper use of each instrument identified in I.P.O. 5.2	5.3.1	Properly measure or weigh the items issued you by your instructor.
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		32	O-15

# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 5.0

INTERIM PERFORMANCE OBJECTIVE (5.1) - (5.2)

			CRITERION PERFORMANCE			TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
5.1.1	Recall the definition of measurement.	5.1.1	Orally identify measuring.	5.1.1	Textbook Lecture	
5.1.2	Write a definition of measurement.	5.1.2	Write a definition of measurement.	5.1.2	Textbook Lecture	
5.2.1	Recall measuring instruments.	5.2.1	Orally name five (5) measuring instruments of American Industries.	5.2.1	Lecture Dsplay Instruments	
5.2.2	Recall use of measuring instruments	5.2.2	Orally define what the five (5) instruments displayed, measure.	5.2.2	Lecture Display	
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# FUNCTIONAL PERFORMANCE ANALYSIS

INTERIM PERFORMANCE OBJECTIVE 5.3

NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
5.3.1	Recognize the use of measuring instruments.	5.3.1	Orally state the proper use of the instruments displayed.	5.3.12		
5.3.2	Demonstrate the ability to measure.	5.3.1	Measure or weigh the items displayed with the proper instrument.	5.3.1	Display Demonstration	
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# AMERICAN INDUSTRIES

SAFETY
(x 4.172 - level 1-B)

Performance Objective No. Intermediate Objective No.	1.0
Source of your information Author	
Edition date	

(Do not write on this sheet)

On an examination hand out sheet, you are to write twelve (12) of fifteen (15) general shop rules.



# AMERICAN INDUSTRIES

SAFETY	
(x 4.166 - level 2-G)	

Performance Objective No. Intermediate Objective No.	1.0
Source of your information  Author	
Edition date	

(Do not write on this sheet)

Demonstrate your ability to practice the A B C 's of safety both in the isometories and at home.



## AMERICAN INDUSTRIES

ORIENTATION
(x 4.172 - level 1-B)

Performance Objective No. Intermediate Objective No.	<u>2.0</u>
Source of your information Author	
Edition date	

(Do not write on this sheet)

On a hand out sheet write the grades you have earned for an assigned grading period.



# AMERICAN INDUSTRIES

ORIENTATION
(x 4.172 - level 1-B)

Performance Objective No. Intermediate Objective No.	<u>2.0</u> <u>2.2</u>
Source of your information  Author	
Edition date	

(Do not write on this sheet)

Convert your earned grades to a point ratio and write your final grade average for an assigned grading period.



# AMERICAN INDUSTRIES

ORIENTATION
(x 4.167 - level 1-C)

Performance Objective No. Intermediate Objective No.	3.0 3.1
Source of your information  Author	
Edition date	

.D

(Do not write on this sheet)

Write the seven (7) stages of the elements of Industrial production and define each.



# AMERICAN INDUSTRIES

ORIENTATION
(x 4.167 - level 1-E)

Performance Objective No. Intermediate Objective No.	3.0
Source of your information Author	
Edition date	 

(Do not write on this sheet)

Draw a graphic representation to illustrate the seven (7) elements of industry and enter a definition of each.



# AMERICAN INDUSTRIES

ORIENTATION		
	(x 4.160 - level 3-C)	

Performance Objective No. Intermediate Objective No.	4.0
Source of your information Author	
Edition date	

(Do not write on this sheet)

List the materials needed to complete an assignment and enter it on the planning sheet issued.



### AMERICAN INDUSTRIES

ORIENTATION	
(x 4.160 - level 3-C)	

Performance Objective No. Intermediate Objective No.	4.0 4.2
Source of your information Author	•
Edition date	

(Do not write on this sheet)

List the tools and machine necessary to complete an assignment and enter it



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#### AMERICAN INDUSTRIES

ORIENTATION	 7.8
(x 4.170 - level 2-C)	

Performance Objective No. Intermediate Objective No.	<u>4.0</u> <u>4.3</u>
Source of your information Author	
Edition date	

(Do not write on this sheet)

Enter the steps necessary, in sequential order, to complete an assignment on a planning sheet.



### AMERICAN INDUSTRIES

ORIENTATION
(x 4.160 - Level 3-C)

Performance Objective No. Intermediate Objective No.	<u>5.0</u> 5.1
Source of your information Author	
Edition date	

(Do not write on this sheet)

Orally state the definition of measurements



### AMERICAN INDUSTRIES

ORIENTATION		
(x 4.161 - level 1-C)		

Performance Objective No. Intermediate Objective No.	5.0 5.2
Source of your information Author	
Edition date	

(Do not write on this sheet)

Orally identify the measuring instruments displayed.



#### AMERICAN INDUSTRIES

ORIENTATION

	(x 4.160 - Level 2-D)		
er va			
Performance Objective No. Intermediate Objective No.	5.0 5.3		

Source of your information

Author

Edition date

(Do not write on this sheet)

Measure or weigh the items given you with the proper instruments.

ERIC

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# AGRICULTURE 7th Grade

- 1.0 Occupations
- 2.0 Tools
- 3.0 Turfgrass
- 4.0 Fertilizing
- 5.0 Vegetable gardening
- 5.0A Container growing
- 6.0 Conservation
- 7.0 Horticulture Maintenance



COURSE	AMERICAN	INDUSTRIES

	PERFORMANCE	
OBJECTIVE	NO. 1.0	

80% proficiency and with world.  INTERMEDIATE PERFORMANCE  1.1 Define in write	ll demonstrate in wr	riting his	wo (2) occupations of the Agriculture Industries with knowledge of the Agriculture Industries in today's
INTERMEDIATE PERFORMANCI  1.1 Define in write	î'E	T	Moviedge of the Agriculture Industries in today's
NO. PERFORMANCI		1	
NO. PERFORMANCE  1.1 Define in write			
NO. PERFORMANCI  1.1 Define in writ		1	
NO. PERFORMANCI  1.1 Define in writ		1	·
1.1 Define in writ		NO.	CRITERION MEASURES
	ing the ten (10) fol- tional areas given:		Using textbook and Media Center materials as reference write a brief description of any two (2) of the ten (10) agricultural positions listed. Include entrance require-
1) Commodit 2) Agricultur 3) Agronomi	al Engineer		ments, necessary training, working conditions and renumerations expected.
4) Husbandm 5) Animal Ke 6) Business M	eper		
7) Butcher 8) County Ag 9) Forest Rai			
10) Botanist	,geto		·
1.2 Write a descrip	tion of the major	1.2.	Using your text as a reference, select two (2) states of
agricultural pro	oducts of the United		the United States, and briefly write a description of the major agriculture enterprises of each.
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TERMINAL PERFORMANCE OBJECTIVE	1.0	INTERIM PERFORMANCE OBJ	TECTIVE 1.1
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	1818UFUG 0855	374	CRITERION PERFORMANCE	110	ALEMAN AREATA ARE POTTAN	TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQUIR:
1.1.1	Recall names of Agricultural occupations	1.1.1	Orally name (two (2) occupations of agriculture	1.1.1	Textbook Media Center	
1.1.2	Define agriculture occupations	1.1.2	Define the two (2) agriculture occupations named in 1.1.1	1.1.2	Textbook Media Center	
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A-3					34	
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COURSE AMERICAN	INDUSTRIES
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# A G R I C U L T U R E

TERMINAL	PERF	ORMANCE	
<b>OBJECTIVE</b>	NO.	2.0	

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With 60% accuracy the learner will identify common garden tools and be able to describe and use these tools.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	Identify orally the tools which are common garden tools.	2.1.1	Identify orally six (6) common garden tools of the thirteen (13) displayed.
	List  1. Common Garden Hoe 2. Four Tine Spading Fork 3. Sq. Pt. Garden Spade 4. Garden Trowell 5. Hand Dibble 6. Hand weeder-Cultivator three prong or tine 7. Scuffle Hoe 8. Spring Bow Rake 9. Level Head Rake 10. One Wheel Push Cultivator		
	10. One Wheel Push Cultivator 11. Level 12. Square 13. Cold Chisel		
		53	A-4

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AGRICULTURE

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

Garden Tools

(Cont.)

NO.	INTERMEDIATE		
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.2	Select the proper tool(s) for each of the tasks listed below.	2.2.1	Orally identify the proper tool(s) for at least three (3) of five (5) garden tasks from those displayed
	<ol> <li>Turning the soil</li> <li>Planting seed or small plants</li> <li>Leveling a bed area</li> <li>Cultivating and weeding by small plants</li> <li>Make shallow trenches for seed sowing</li> </ol>		•
	<ol> <li>Spading fork or spade</li> <li>Hand Dibble</li> <li>Spring Bow or Level-Head Rake</li> <li>Hand Weeder/Cultivator</li> <li>Common Garder Hoe</li> </ol>		
+			

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COURSE	<b>AMERICAN</b>	INDUSTRIES
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TERMINAL	PERF	ORMANCE	
<b>OBJECTIVE</b>	NO.	2.0	

Garden	Tools	
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(Cont.)

	INTERMEDIATE		
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.3	Orally identify the use of the following garden tools.	2.3.1	Orally describe the proper use for at least four (4) garden tools from a display.
	<ol> <li>One Wheel Push Cultivator</li> <li>Garden Trowell</li> <li>Common Garden Hoe</li> <li>Level Head Rake</li> <li>Four-Tine Spading Fork</li> </ol>		
	<ol> <li>Cultivate, loosen soil and destroy weeds</li> <li>Plant small plants out of pots or other containers</li> <li>Make shallow trenches for sowing seed and destroying weeds</li> <li>Level bed areas and remove debris</li> <li>Turn soil in preparation for planting</li> </ol>		
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TERMINAL PERFORMANCE OBJECTIVE 2.0

INTERIM PERFORMANCE OBJECTIVE (2.1) (2.2) (2.3)

- 11			CRITERION PERFORMANCE		egis a distribution de la companie d	TIME
<u>NO.</u>	LEARNING STEPS	NO.	EVALUATION (Response)	#0	MITHOD/MEDIA SELECTION	PROU.
2.1.1	Identify orally garden tools displayed	2.1.1	Orally name the garden tools displayed	21.)	Lectures Catalogs Actual Tools Ditto Materials (Sketches or Drawings)	
2.1.2	Recall the garden tool displayed	2.1.2	ldentify orally eight (8) common garden tools of the 15 displayed tools	2,1.2	Display Lecture	
2.2.1	Orally identify garden tools	2.2.1	Orally name the garden tool(s) from a display	2.2.1	Catalogs Lecture Discussion Slides	
2.2.2	Recall uses of Garden Tools	2.2.2	Orally identify the proper tool(s) from a display and state a use of each	2.2.2	Lecture Display Textbook	
2.3.1	Orally identify garden took	2.3.1	Orally describe the use(s) of the displayed garden tools	2.3:1	Display Lecture Textbook	
2.3.2	Recall uses of Garden Tools	2.3.2	From the display of five (5) tools, orally describe the use of four (4)	2.3.2	Display Lecture Textbook	
56 ERI	C.					57

COURSE	AMERICAN	INDUSTRIES

TERMINAL PERFORMANCE	
OBJECTIVE NO. 3.0	Turfgrass
With 75% proficiency, the learner will visually identify and	orally describe four (4) of six (6) grass
samples shown. He will specify which grasses are best suite	ed for local planting and the conditions

necessary for these grasses to survive.

	INTERMEDIATE		
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
3.1	Orally name the grass samples displayed:	3.1.1	Point to and name four (4) of the six (6) grass samples displayed.
	<ol> <li>Bermuda         <ul> <li>a. rapid spreader</li> <li>b. 6 inches to 12 inches high</li> <li>c. requires not to wet soil</li> <li>d. a hot weather grass</li> <li>e. for pasture or lawn</li> </ul> </li> </ol>		
	<ul> <li>Blue Grass</li> <li>a. 2 inches to 20 inches high</li> <li>b. cool area grass</li> <li>c. pasture grass</li> </ul>		· · · · · · · · · · · · · · · · · · ·
	<ul> <li>3) St. Augustine</li> <li>a. shade grass</li> <li>b. withstands salt spray</li> <li>c. best Florida grass</li> <li>d. needs nitrogen fertilizer</li> <li>and chinch bug protection</li> </ul>		
	<ul> <li>4) Centipede</li> <li>a. low maintenance</li> <li>b. little water</li> <li>c. insect and disease resistable</li> <li>d. needs iron additives</li> <li>e. not for pastures</li> </ul>		
			<b>5</b> 8

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TERMINAL	PERFO	RMANCE	
OBJECTIVE	NO.	3.0	

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(Cont.)

	INTERMEDIATE	T	
NO.		NO.	CRITERION MEASURES
3.1	5) Zoysia (Japanese lawn grass) a. course grass b. retains color c. needs fertilizer d. dark green color e. needs fertilizing		
	6) Rye a. 3 ft. to 5 ft. tall b. blue grass c. pasture grass d. good soil protection		
3.2	State or by the qualities and characteristics of grass varities.	3.2	Orally state at least three (3) characteristics or qualities of each sample of grass you identify in 3.1.
3.3	Identify the conditions under which certain grasses best thrive and the proper use for these grasses.	3.3	Orally state the conditions under which the grass samples you identified in 3.1 would best thrive and state orally the results to be expected from cultivating each.
		!	<b>59</b> A-9

TERMINAL PERFORMANCE OBJECTIVE 3.0

INTERIM PERFORMANCE OBJECTIVE \_\_\_\_3.1 CRITERION PERFORMANCE TIME NO. LEARNING STEPS NO. EVALUATION (Response) NO. REQ METHOD/MEDIA SELECTION 3.1.1 3.1.1 Recall grass names Orally recall grass names 3.1.1 Lecture Samples Textbook 3.1.2 Identify grass samples 3.1.2 Orally identify grass samples displayed 3.1.2 Lecture Samples Textbook 60 61 ERIC

TERMINAL PERFORMANCE OBJECTIVE 3.0

INTERIM PERFORMANCE OBJECTIVE 3.2

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NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
3.2.1	Recall grass qualities and characteristics	3.2.1	Orally recall grass qualities and characteristics	3.2.1	11,	I I I
3.2.2	Identify grass qualities and characteristics	3.2.2	Identify and state orally the grass quality and characteristics of the grasses displayed	3.2.2	Textbook Samples Lecture	
62 A-11						63
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TERMINAL PERFORMANCE OBJECTIVE 3.0

INTERIM PERFORMANCE OBJECTIVE \_\_\_\_3.3

		1	ARTHUTAN DERCAMANAE			
NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	T IME REQ
3.3.1	Recall productive grass growing conditions.	3.3.1	Orally state best conditions for the grass samples identified in 3.1 to thrive.	3.3.1	Lecture Samples Textbook	ALQ
3.3.2	· Recall best application of grass varieties.	3.3.2	Orally state the application of the grasses identified in 3.1.	3.3.2	Lecture Samples TExtbook	
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COURSE	AMERICAN	INDUSTRIES

TERMINAL PERFORMANCE	
OBJECTIVE NO. 4.0	Fertilizing

With 80% proficiency, the learner will define fertilizer and demonstrate his ability to properly calibrate, fill and use a manual push type fertilizer spreader.

	NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
MET.	4.1	Properly identify the fertilizer spreader displayed and properly set the calibrater.	4.1.1	
	2	Select a plot of school lawn 100 x 10 feet and demonstrate proper fertilizing of this plot.	4.2.1	Fill the fertilizer with the instructor approved fertilizer mixture and physically fertilize the plot assigned you.
	4.3	Demonstrate your proficiency in after use cleaning of a manual fertilizer spreader.	4.3.1	Using water, properly clean the spreader after using, and oil all points necessary prior to storage.
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				66 A-13

TERMINAL	PERFORMANCE	OBJECTIVE	4.0	INTERIM PERFORMANCE OBJECTIVE	41
				INTERNIT LEGGORDANCE OBJECTIVE	4.1

			CRITERION PERFORMANCE			TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
4.1.1	Identify a manually operated fertilizer spreader	4.1.1	Orally identify a manually operated fertilizer spreader	4,1.1		
4.1.2	Properly calibrate a fertilizer spreader	4.1.2	Calibrate a fertilizer spreader	4.1.2	E Sample Lecture Demonstration Manual	
67 A-14			,			68



	TERMINAL PERFORMANCE OBJECTIVE 4.0				INTERIM PERFORMANCE OBJECTIVE 4.2			
NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	T IME REQ		
4.2.1	Select a lawn plot 100 ft. x 10 ft.	4.2.1	Stake out a lawn plot 100 ft. x 10 ft.	4.2.1	Lecture - Demonstration	المراجعة الم		
4.2.2	Fertilize plot selected in L. S. 4.2.1	4.2.2	Physically fertilize the selected plot.	42	Demonstration			
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TERMINAL PERFORMANCE OBJECTIVE 4.0

INTERIM PERFORMANCE OBJECTIVE \_\_\_\_\_4.3

NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
4.3.1	·	4.3.1	Physically clean a manually operated fertilizer spreader.	4.3.1		
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#### INSTRUCTORS INFORMATION

There are two (2) Terminal Performance Objectives given for T. P. O. 5. If space, climate or conditions for outside planting prohibit the use of T. P. O. 5, use T P. O. 5A as an alternative.



COURSE	AMERICAN	INDUSTRIES	

TERMINAL PERFORMANCE		
OBJECTIVE NO. 5.0	Vegetable Gard	ening
·		

The learner will assist in a garden site selection, properly prepare the soil, and plant a vegetable producing garden with 80% proficiency.

	INTERMEDIATE		
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.1	Visually select a garden site.	5.1.1	With instructor's assistance and approval, select a site approximately 30 ft. x 30 ft. for a vegetable producing garden.
5.2	Prepare the soil for planting a vegetable garden.	5.2.1	Using hand ground breaker, prepare your selected garden site for planting.
5.3	Properly fertilize a vegetable garden plot	5.3.1	Following instructor's directions, using materials furnished, fertilize the plowed garden site.
5.4	Plant Vegetables in a prepared garden site.	5.4.1	Following instructor's directions, and proper reference material, seed the prepared garden site.
			74



TERMINAL PERFORMANCE OBJECTIVE 5.0

INTERIM PERFORMANCE OBJECTIVE 5.1

TME CRITERION PERFORMANCE METHOD/MEDIA SELECTION NO. REQ LEARNING STEPS NO. EVALUATION (Response) NO. 5.1.1 Media Center Lecture 5.1.1 Recall proper garden site selection Orally state factors to be considered in 5.1.1 factors garden site plot Textbook Select garden site 5.1.2 Physically select a garden site 5.1.2 5.1.2 Demonstration Lecture Textbook 76

TERMINAL PERFORMANCE OBJECTIVE 5.0

INTERIM PERFORMANCE OBJECTIVE 5.2

NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	T IME REQ
5.2.1	Recall proper soil preparation for garden planting	5.2.1	Orally recall proper methods of soil preparation			
•	1					
5.2.2	Demonstrate proper soil preparation	5.2.3	Physically prepare the soil of the site selected			25
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TERMINAL PERFORMANCE OBJECTIVE 5.0

INTERIM PERFORMANCE OBJECTIVE 5.3

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			CRITERION PERFORMANCE			TIME
<u>NO.</u>	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
5.3.1	Recall proper fertilizing methods and materials	5.3.1	Orally state the recommended fertilizing method and materials	5.3.1	Manufactures reference material Lecture Textbook Films	
5.3.2	·	5.3.2	Physically fertilize the garden site soil	5.3.2	Demonstration Reference Manufactures materials	
	e de la companya de l					
9 A-21						80
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NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	T DME REQ
5.4.1	Recall planting methods	5.4.1	Orally state proper planting wethods of those vegetables to be cultivated	5.4.1	and the second s	
5.4.2	Demonstrate proper vegetables plant- ing methods	5.4.2	Plant vegetables as recommended	5.4.2	Manufactures recommendation Material Demonstration Chalkboard	. 4
·				:	Textbook	
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COURSE	AMERICAN	INDUSTRIES	

TERMINAL	PERF	DRMANCE	
OBJECTIVE	NO.	5.0.A	

Container Growing

The learner with 80% proficiency, will fertilize, plant and cultivate seeds or seedlings to produce mature plants.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5A.1	Given containers and soil, you will prepare soil for planting.	5A.1.1	Given soil and the proper fertilizing agents, prepare the mixture (in containers) for planting seedlings or seeds.
5A.2	Given seeds or young plants, properly sow the seeds or seedlings issued.	5A.2.1	Plant the seeds or seedlings in the prepared soil containers at the correct depth, adding water as needed.
5A.3	Adding water, fertilizer and proper growing procedures, grow the planted seeds or seedlings to maturity.	5A3.1	Locating the planted seeds or seedlings in proper sun light or artificial light, cultivate your agriculture project to maturity.
			asydi Name
			83 A-23

TERMINAL PERFORMANCE OBJECTIVE 5A.0

INTERIM PERFORMANCE OBJECTIVE \_\_\_\_5A.1

			CRITERION PERFORMANCE			TIME
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
5A.1.1.1	Recall soil preparation	5A.1.1.1	State the proper mixture of soils for planting	5A.1.1.	I Textbook Lecture	
5A.1.1.2	Demonstrate the ability to properly mix soil for planting.	5A.1.1.2	Mix the soil ingredients given you in preparation for planting seeds or seed-lings.	5A.1.1.	1 .	e.
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TERMINAL PERFORMANCE OBJECTIVE 5A.0

INTERIM PERFORMANCE OBJECTIVE 5A.2

LEARNING STEPS	i 1	CRITERION PERFORMANCE		l .	
	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
Recall properly sowed seeds or seed- lings.	5A.2.1	Orally state proper sowing of seeds or seedlings.	5A.2.1.	1 Demonstration Eecture Film	
Demonstrate proper seed or seed- ling sowing.	5A.2.1	2 Sow the seeds or seedlings.	5A.2.1.	2 Demonstration Lecture	*
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	lings.  Demonstrate proper seed or seed-	Demonstrate proper seed or seed-ling sowing.  5A.2.1	Demonstrate proper seed or seedling sowing.  5A.2.1.2 Sow the seeds or seedlings.	Demonstrate proper seed or seed-ling sowing.  5A.2.1.2 Sow the seeds or seedlings.  5A.2.1.2 Sow the seeds or seedlings.	lings.  Demonstrate proper seed or seed-ling sowing.  5A.2.1.2 Sow the seeds or seedlings.  5A.2.1.2 Demonstration Lecture

TERMINAL PERFORMANCE OBJECTIVE 5A.0

INTERIM PERFORMANCE OBJECTIVE \_\_\_\_\_5A.3

NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
5A.3.1.1	Recognize proper cultivating methods.	5A.3.1.		5A.3.1		
5A.3.1.2	Demonstrate proper cultivating methods.	5A.3.1.	2 Locate your planted seeds or seed- lings in proper climatic conditions and raise to maturity.	5A.3.1	2 Lecture Demonstration	
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COURSE	AMERICAN	INDUSTRIES
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TERMINAL PERFORMANCE	
OBJECTIVE NO. 6.0	Conse

The learner will define conservation practices relating to soil, water, and air, in writing, with 60% proficiency.

wa	INTERMEDIATE		
NO.	PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
6.1	The learner will define conservation.	6.1.1	<ul> <li>Write a definition of conservation.</li> <li>a. The protection, improvement, and use of natural resources according to principles that will assure their highest economic or social benefits.</li> <li>b. The wise use of our natural resources.</li> </ul>
5.2	Given a list of conservation practices for each (soil, water and air).	6.2.1	The learner will identify in writing two (2) methods of soil, water and air conservation.  s_ use contour planting on slopes w_ use cover crops to help prevent excessive run offs s_ plant deep rooted crops a_ control smoke from industrial plants w_ construct dams to store water s_ use prescribed crop rotations a_ reduce exhaust from petroleum powered vehicles w_ protect wells and water supplies from contamination and pollution a_ plant more trees and other vegetation to return oxygen to the atmosphere s_ plant wind breaks to help control wind erosion w_ use terracing on steep slopes
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TERMINAL	PERFORMANCE	OBJECTIVE	6.0
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INTERIM PERFORMANCE OBJECTIVE 6.1

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NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
6.1.1	Recall the meaning of conservation.	6.1.1	Recall a meaning of conservation	6.1.1	L/Dis: Transparencies	
6.1.2	Define conservation	6.1.2	Write the definition of conservation	6.1.2	Textbook Media Center Lecture	
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TERMINAL PERFORMANCE OBJECTIVE 6.0

INTERIM PERFORMANCE OBJECTIVE 6.2

NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD /MEDIA COLEGATON	TIME
6.2.1	Recall conservation practices relating to water, soil and air		Orally describe conservation practices relating to soil, water, and air.	6.2.1	METHOD/MEDIA SELECTION  Lecture Discussion F. S.	REQ
6.2.2	Define a description of air, soil and water conservation practices.	6.2.2	Write air, soil and water conservation practices. In writing, from an instructor's prepared list of conservation practices, select two for each: soil, water and air.	6.2.2	Handout Discussion Textbook	
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COURSE	AMERICAN	INDUSTRIES
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TERMINAL	PERF	RMANCE
OBJECTIVE	NO.	7.0

# Horticulture Maintenance

With 80% proficiency, the learner will cut the necessary materials to proper measurement to fabricate a "young tree" protector. He will assemble the pre-cut materials and assemble the protector.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
7.1	Cut the materials issued to correct length and size measurements to construct a young tree protector.	7.1.1	You will be issued the following materials and you are to cut to correct length and size to construct a tree protector.  1) 36 inches of 2 inch chicken wire 2) 1 2lb. empty coffee can 3) 1 firing strip 24 inches x 2 inches
-	CAN 216		Stake
	Wood		Chicken wire —— Tree
7.2	Fabricate the cut materials into 7 a tree protector.	.2.1	Fabricate the pre-cut materials into a tree protector.
			95 A-30

INTERIM PERFORMANCE OBJECTIVE \_\_\_\_\_7.1

		7	ANTENDERAL DESERVATION	T	:	TTVT
NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
<u>NO.</u>	DEARMING OTERS	NO.	EAWDONITON (VESTATION)	IIV.	HETHAN LIGHTY AIMPATTON	
7.1.1	Recall proper measuring.	7.1.1	Measure and cut the stock materials issued to construct a young tree protector	7.1.1	Demonstration Stock materials	
7.2.1	Recall assembling materials.	7.2.1	Assemble and fasten the cut materials into a tree protector.	7.2.1	Demonstration	
	,		MANA M VINE PORTAGORES			
96 ERIC			· · · · · · · · · · · · · · · · · · ·			97

### AMERICAN INDUSTRIES

AGRICULTURE

	(x 4.167 - level 1-E)	
Performance Objective No. Intermediate Objective No.	1.0 1.1	
Source of your information		

Author

Edition date

(Do not write on this sheet)

From the list of Agriculture occupations given in TPO 1.0, select two (2) and write a brief explanation of the responsibilities, training needed, and the wage scale expected from each.



#### AMERICAN INDUSTRIES

AGRICULTURE	
(x 4.173 - level 2-F)	

Performance Objective No. Intermediate Objective No.	1.0
Source of your information Author	
Edition date	

(Do not write on this sheet)

Select two (2) states of the United States and write a brief description of the major agriculture enterprises of each.



## AMERICAN INDUSTRIES

AGRICULTURE	
(x 4.161 - level 1-C)	

Performance Objective No. Intermediate Objective No.	<u>2.0</u> <u>2.1</u>
Source of your information Author	
Edition date	

(Do not write on this sheet)

Orally name eight (8) of the common garden tools from the display.



### AMERICAN INDUSTRIES

AGRICULTURE	
(x 4.163 - level 3-C)	

Performance Objective No. Intermediate Objective No.	2.0 2.2
Source of your information Author	
Edition date	

. (Do not write on this sheet)

Orally state the tool or tools to be used to accomplish the tasks stated in 2.2. Identify 3 tools of the 5 displayed.



### AMERICAN INDUSTRIES

AGRICULTURE	
(x 4.164 - level 2-C)	

Performance Objective No. Intermediate Objective No.	2.0
Source of your information  Author	
Edition date	

(Do not write on this sheet)

Orally describe four (4) tools displayed and state the proper use for each.



## AMERICAN INDUSTRIES

 AGRICULTURE	_
(x 4.160 - level 3-C)	

Performance Objective No. Intermediate Objective No.	3.0
Source of your information Author	
Edition date	

(Do not write on this sheet)

Identify and orally name four (4) of six (6) grass samples displayed.



## AMERICAN INDUSTRIES

 AGRICULTURE
(x 4.173 - level 2-F)

Performance Objective No. Intermediate Objective No.	3.2
Source of your information  Author  Edition date	The second state of the second
	Photograph on the large of the second of the

(Do not write on this sheet)

Orally name three (3) characteristics or qualities of the grass samples identified in 3.1 and identify the results expected in cultivating each.



### AMERICAN INDUSTRIES

AGRICULTURE

	(x 4.161 - level 1-C)
Performance Objective No. Intermediate Objective No.	4.0
Source of your information	

Author

Edition date

(Do not write on this sheet)

Orally identify the manual fertilizer spreader displayed and define the use of the calibrater.



### AMERICAN INDUSTRIES

:	AGRICULTURE
	(x 4.163 - level 3-C)

Performance Objective No. Intermediate Objective No.	4.0
Source of your information	
Author	- N. W Prij. 24. A step 1.4. 2
Edition date	For containing the region of the second of t

(Do not write on this sheet)

With a selected group of fellow learners, select a lawn plot on your school campus to be fertilized and demonstrate the proper use of a manual spreader.



# AMERICAN INDUSTRIES

AGRICULTURE	_
(x 4.161 - level 1-C)	

Performance Objective No. Intermediate Objective No.	4.0
Source of your information Author	
Edition date	

(Do not write on this sheet)

Individually demonstrate your ability to clean fertilizing equipment after use.



#### AMERICAN INDUSTRIES

AGRICULTURE
(x 4.163 - level 3-C)

Performance Objective No. Intermediate Objective No.	5.0
Source of your information	
Author	gallenger for 1965 at stoly-squares assemblish frame and 1865. Stoly-squares statisting story management and the forested at the squares as t
Edition date	

(Do not write on this sheet)

With instructor's assistance, select a plot for a vegetable producing garden.



#### AMERICAN INDUSTRIES

AGRICULTURE
(x 4.168 - level 2-A)

Performance Objective No. Intermediate Objective No.	5.0 5.2
Source of your information	
Author	
Edition date	

(Do not write on this sheet)

Using the equipment given you by your instructor, you are to prepare the selected garden site by properly breaking the soil.



## AMERICAN INDUSTRIES

AGRICULTURE	_
(x 4.169 - level 2-D)	

Performance Objective No. Intermediate Objective No.	<u>5.0</u> <u>5.3</u>
Source of your information	
Author	
Edition date	

(Do not write on this sheet)

Properly fertilize the broken soil fo the selected garden site. Use the materials issued by the instructor.



7 -

# AMERICAN INDUSTRIES

AG	RICU	LTUR	E
(x 4,	.70 -	level	2-C)

Performance Objective No. Intermediate Objective No.	5.0
Source of your information  Author	
Edition date	

(Do not write on this sheet)

Seed the prepared garden site soil, with the seeds or seedlings given you by the instructor.



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### AMERICAN INDUSTRIES

AGRICULTURE
(x 4.169 - level 2-D)

Performance Objective No. Intermediate Objective No.	5A.0 5A.1
Source of your information  Author	
Edition date	

(Do not write on this sheet)

With instructors assistance and your textbook as reference, prepare the soil and fertilizer mixture for planting.





## AMERICAN INDUSTRIES

AGRICULTURE	
(x 4.161 - level 1-C)	

Performance Objective No. Intermediate Objective No.	5A,0 5A.2
Source of your information  Author	
Edition date	

(Do not write on this sheet)

Mix the fertilizer and soil in proportions and prepare the container(s) and plant seeds or seedlings.



#### AMERICAN INDUSTRIES

AGRICULTURE
(x 4.163 - level 3-C)

Performance Objective No.	5A.0
Intermediate Objective No.	5A_3
Source of your information	
	and the states and spiles was saving any superiors
Author	
Edition date	

(Do not write on this sheet)

Locate the planted containers in the proper sunlight conditions for cultivating.



# AMERICAN INDUSTRIES

AGRICUL/TURE	
(x 4.172 - level 1-B)	

Performance Objective No. Intermediate Objective No.	6.1
Source of your information Author	
Edition date	

(Do not write on this sheet)

On an Examination Sheet, define conservation.



#### AMERICAN INDUSTRIES

AGRICULTURE
(x 4.172 - level 1-B)

Performance Objective No. Intermediate Objective No.	6A.0 6A.2
Source of your information	
Author	
Edition date	

(Do not write on this sheet)

On the examination handout sheet, write two (2) methods of soil, water and air conservation by writing in S - W or A in the proper underlined space.



# AMERICAN INDUSTRIES

AGRICULTURE
(x 4.160 - level 3-C)

			AGRICULTU	RE	<del></del>
			(x 4.160 - level	3-C)	
Performance Ob Intermediate Ob	jective No.	7.0	T MAN WATER		
Source of your inf	formation				
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Personal and the second					

Measure and cut the materials issued you from measurements shown in I.P.O 7.1.



### AMERICAN INDUSTRIES

AGRUCULTURE
(x 4.161 - level 1-C)

Performance Objective No. Intermediate Objective No.	<u>7.0</u> <u>7.2</u>	
Source of your information		
Author		
Edition date	1	

(Do not write on this sheet)

Assemble the pre-cut materials into a tree protector.



#### AMERICAN INDUSTRY

#### CONSTRUCTION

- 1.0 OCCUPATIONS
  - 20 CHARACTERISTICS OF WOOD MATERIALS
- 8.0 HAND TOOLS
- 4.0 WOOD JOINING AND FASTENING
- 5.0 FINISHING
  - 60 MASS PRODUCTION



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#### (CONSTRUCTION)

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	e se se consta	1	200		100	Add to the	<b>乙号</b> 殺:	A 37	in the	A		٠.
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OCCUPATIONS

ith 75% proficiency, the learner will list the occupational opportunities available that relate directly the woods area.

INTERNEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
The learner will identify seven occupations of the wood industry.	11	In writing, list seven (7) occupations of the wood industry.
1. Forester		
2. Lumberman		
3 Mill Worker		
4: Carpenter (rough)		
5. Finish Carpenter		
6. Cabinet Maker		
7. Pattern Maker		
description of one of the	1.2	From the list of seven (7) occupations given, write a brief description of one of these occupations using
occupations of the wood industry		textbook or other media material available.
	3 - <b></b>	
		120 C22

#### FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 1.0

INTERIM PERFORMANCE OBJECTIVE (1.1) - (1.2)

NAME OF THE PERSON OF THE PERS	Charles and the second of the		CRITERION PERFORMANCE		· · · · · · · · · · · · · · · · · · ·	TIME
Ю.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
	The learner will recall several occupations of the wood industry.	1.1.1	Recall several occupations of the wood industry.	1.1.1	Lecture Textbook	
2	The learner will identify several occu- pations of the wood industry.	1.1.2	Identify by underlining seven (7) occupations given to you by your teacher.	1.1.2	Lecture Textbook Media Center	
	The learner will recall a brief description of one of the occupations of the wood industry.	1.2.1	Recall orally the occupations of the wood industry given you by your teacher.	1.2.1	Textbook Lecture	
2	The learner will define the occupations of the wood industry.	1.2.2	Write a brief description of the seven (7) occupations given to you by your teacher.	1.2.2	Media Center Guidance Department Textbook	
			ı			
<b>21</b>						1

COURSE	AMERICAN	INDUSTRY	
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#### CONSTRUCTION

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Characteristics of Wood Materials
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With 70% proficiency, the learner will identify, orally and in writing, four (4) woods commonly used in the woodworking laboratory and three (3) manufactured wood materials.

NO.:	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
21	The learner will identify orally four (4) commonly used laboratory woods:	2.1	Identify orally the four (4) wood samples shown by your teacher.
	1. mahogany 3. Pine 2. walnut 4. Poplar		
<b>:2</b>	The learner will, in writing, list the basic color and workability of commonly used woods.	2.2	List, in writing, the basic color and working ability of the four (4) commonly used woods.
e i vi Hillion Nillion Valent	NAME COLOR ABILI	<b>* Y Y</b>	
精力和	<ol> <li>Mahogany Med. Red Soft</li> <li>Pine White Soft</li> </ol>		
	3. Poplar Yellow Green Med.		
	4. Walnut Brown Med.		· ·
			123



COURSE	AMERICAN	INDUSTRIES
	CONSTR	LICTION

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0		Characteristics o	f Wood Materials
OBJECTIVE NO. 2.0	(Cont.)		
	, ·		
TATERMEDIATE			

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.3	The learner will identify, in writing, at least three (3) manufactured wood materials:	2.3	Identify, in writing, the three (3) manufactured wood materials samples shown by your teacher.
	1. Plywood		
	2. Particle board	,	
	3. "Masonite"		
ne grande de la companya de la compa			124



## FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 2.0

# INTERIM PERFORMANCE OBJECTIVE $(\underline{2.1})\cdot(\underline{2.2})\cdot(\underline{2.3})$

Mark Control						
	LEADNING GEORG		CRITERION PERFORMANCE	WA	VOMION ACTOR A SET DOUTON	TIME
<u>NO.</u>	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
<b>2.1.1</b>	The learner will recall four (4) commonly used laboratory woods.	2.1.1	Orally recall four (4) wood samples shown by your instructor.	2.1.1	Wood Samples Lecture	
2.1.2	The learner will identify four (4) commonly used laboratory woods.	2.1.2	Match the correct name to the wood samples.		Wood samples	
<b>2.2.1</b>	The learner will recall the color of four (4) commonly used woods.	2.2.1	Orally recall the basic color and workability of four (4) commonly used woods.	2.2.1	Demonstration Lecture Wood samples	
2.2.2	The learner will identify the work ability of four (4) commonly used woods and their color.		List, in writing, the basic color and workability of wood samples.	2.2.2	Wood samples	,
2.3.1	The learner will recall the uses of several manufactured wood materials.		Recall the uses of manufactured wood materials.	2.3.1	Lecture Textbook Samples	
2.8.2	The learner will identify, in writing, three (3) samples of manufactured wood products.	2.3.2	Identify the three (3) kinds of manufactured wood products shown by your teacher.	2.3.2	Samples .	
<b>25</b>						126
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COURSE	$\mathbf{A}^{*}$	SRICAN	INDUSTRY	
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#### CONSTRUCTION

TERMINAL PERFORMANCE	
OBJECTIVE NO. 3.0	Hand Tools
	nand 1001s

With 70% accuracy, the learner will orally identify sixteen (16) basic hand tools of the wood laboratory and properly clean and store these tools.

ю.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
81	The learner will orally identify these sixteen (16) hand tools of the wood laboratory:	S 3.1	Orally identify the hand tools displayed by the teacher.	
	1. hand saw			
	2. smooth plane 3. wood chisel			ੁੱ <b>ਵ</b> ਹ
	4. try square			
	5. framing square			
	6. back saw 7. coping saw			e di di ra traggi in
	8. compass saw			
	9. wood rasp	1		1.6
	10. hand drill 11. twist drill	]		- - -
	12. brace		and the	د د اهاری عداد د
	13. auger bit		#.	14
\$4.000 \$6.000 \$4.000 \$6	14. claw hammer 15. screwdriver			V.
	16. wood mallet			
	(1)	]	:	3.2 
8.2	The learner will clean and	3.2	You will clean and properly store hand tools used	ন গ
	properly store hand tools used in the wood laboratory.		in the wood laboratory.	
	September 1977			5 42 4 2 4 4 4 3 4
			127	100 mg / 100
			LAC	C-7



# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 3.0

INTERIM PERFORMANCE OBJECTIVE  $(3.1) \cdot (3.2)$ 

		<del></del> -	CRITERION PERFORMANCE			TIME
. <b>I</b> V.	- LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
<b>311</b>	The learner will recall hand tools used in the wood laboratory.	3.1.1	Recall sixteen (16) hand tools used in the wood laboratory.	3.1.1	Lecture Hand Tools	
3.12.	The learner will identify hand tools used in the wood laboratory.	<sub>.</sub> 3.1.2	Identify the hand tools displayed by the teacher.	3.1.2	Hand Tools Tool Name Tags	
2	The learner will recall how to clean and store hand tools.	3.2.1	Recall orally the proper method of cleaning and storing hand tools of the wood laboratory.	3.2.1	Lecture and Demonstration Hand Tools	ter Sker
22	The learner will perform the	3.2.2	Clean and store three (3) tools	3.2.2	Tools	
	proper method of cleaning and storing hand tools.		given to you by the teacher.		1	
20°		·	,		-	129
28 ERI	C	·			•	

#### COURSE AMERICAN INDUSTRY CONSTRUCTION

TERMINAL PERFORMANCE	
UKUKETIVE RO. 4.0	Wood Joining and Fastening

The learner will with 75% proficiency, demonstrate his ability to join or fasten wood stock, using one (1) or more of three (3) basic methods, and he will evaluate the quality of the fastening and joining of his product.

BO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
<b>4</b> 1	The learner will square and pre- pare (sand) wood stock for joining.	4.1	Square and sand the wood stock to be joined. Follow these steps of procedure:
			<ol> <li>cut stock to approximate length</li> <li>sand to proper dimensions, being sure stock is square</li> </ol>
			3. drill any pilot holes necessary.
<b>.2</b>	The learner will sand surface of wood stock using correct procedure and materials.	4.2	Sand surface of stock with sanding block and proper grit of sand paper.
	The learner will identify, orally, three (3) methods of wood join-	4.3	Orally identify three (3) samples of basic wood joining shown you by your teacher.
	ing: 1 - nails 2 - screws 3 - glue		astt.,.
4	The learner will join stock to complete a custom produced	4.4	Assemble the custom produced product using the joining method demonstrated by your teacher.
	product		
		.,	0.0
			1 <b>30</b>

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#### CONSTRUCTION

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Wood Joining and Fastening

(Cont.)

RO.		ediate Mance ob	Jective:	3	NO.	CRITERION M	eas	URI	BS			
quality of product.		of his cus	ner will evaluate the of his custom produced			Evaluate the quality of your custom produced product by assigning one of the following rating scales to each quality statement:						
	1.		square ar length	and		Excellen	t =	4	points			
	2.	parts are sanded s	properly mooth	•		Good	=	3	points			
	3.	parts fit	together	and		Average	=	2	points	٠		
		smoothly				Poor	=	1	point	•		
			7 × 6	2								
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# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 4,0

INTERIM PERFORMANCE OBJECTIVE(4.1)-(4.2)-(4.3)

		<u></u>	CRITERION PERFORMANCE	T		TIME
<u> 10.</u>	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
411	The learner will recall how to square and prepare wood stock for joining.	4.1.1	Recall orally the method of squaring and preparing stock for joining.	4.1.1	Demonstration Hand Tools	
4.1.2	The learner will identify the method of squaring and preparing stock for joining.	4.1.2	Square stock and prepare for joining.	4.1.2	Saw Square Hand Plane	
<b>421</b>	The learner will recall the correct procedure and materials for sanding	4.2.1	Recall the procedure and grit of sand paper for correct sanding of stock.	4.2.1	Demonstration	
42.2	The learner will correctly sand wood stock.	4.2.2	Correctly sand wood stock.	4.2.2	Sanding Block Sand Paper	
4.8.1 V	The learner will recall three (3) methods of joining wood.	4.3.1	Recall orally three (3) methods of joining wood.	4.3.1	Demonstration Samples	
	2. sorews 8. pag					
43.2	The samer will identify three (3) methods of joining wood.	4.3.2	Identify three (3) methods of joining wood by orally identifying the samples displayed by your teacher.	4.3.2	Sample Wood Joints	
<b>32</b> ERIO		gAT	M*		,	133

# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 4.0

INTERIM PERFORMANCE OBJECTIVE (4.4) - (4.5)

			CRITERION PERFORMANCE		100ma 100m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	THE
10.3	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
	The learner will recall how to join stock to complete a custom produced product.	4.4.1	Recall orally the procedure for assembling the custom produced product.	4.4.1	Demonstration	
				:		
4.2	The learner will use one or more methods of joining wood to assemble a custom produced product.	4.4.2	Assemble your custom produced product using the correct procedures demonstrated by your teacher.	4.4.2	Product Components Fasteners	-
						***************************************
5.1	The learner will recall the quality statements that apply to the custom produced product.	4.5.1	Recall and orally state quality statements about the custom produced product.	4.5.1	Teacher Lecture Sample Product	
	l. parts are square and of proper length				F.	
	2. parts are properly sanded smooth				·	1
	3. assembly is tight and parts fit together smoothly					
					· ·	
12	The learner will evaluate the custom	4.5.2	Evaluate your custom produced product according to the rating scale	4.5.2	Learner's Custom_Produced Product Rating Scale	
El Sil	<u>(C</u>		given in C. M. 4.5 .		·	135

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#### CONSTRUCTION

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Envolutionally, the learner will identify given finishing materials and demonstrate his ability to properly independent and surface. He will also evaluate the quality of the finish on his product and will demonstrate the finish of t

PARTONIAMOR ORINGVIVES	180.	CRITERION MEASURES
The learner, will identify the three major steps in applying a finish to a wood surface:	5.1	Using your text as a guide, define the three (3) major steps in applying a finish.
1. staining 2. sealing 3. finishing		
The learner will properly apply a stain to a wood surface.	5.2	Apply stain to the surface of the custom produced product.
The learner will properly apply a selected finish to a wood surface.	5.8	Apply finish to the properly prepared and stained surface of your custom produced product.
The learner will evaluate the	5.4	Using the following rating scale evaluate the quality of the
quality of the finish on his pro- duct according to the following quality statements:		finish of your customproduced product.
1 the color of the wood finish is uniformly blended		Excellent = 4 points
27 the surface of the product is smooth and free of laps or runs		Good = 3 points  Average = 2 points
8 the finish covers all of the surface of the product		Poor = 1 point
The learner will properly and afely clean and store the tools mid materials used in finishing.	5.5	Properly and safely clean and store all tools and equipment used in finishing.
		136 c-13



# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 5.0

INTERIM PERFORMANCE OBJECTIVE (5.1)-(5.2)-(5.3)

NO.	≈LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METUON /MONTA CUI PONTON	TIME
	The learner will recall three (3) steps in applying a finish to a wood surface.	5.1.1	Recall orally the three (3) steps in applying a finish to a wood surface.	<u> </u>	METHOD/MEDIA SELECTION  Demonstration	REQ.
24	The learner will identify three (3) steps in applying a finish to a wood surface.	5.1.2	Identify, in writing, the three (3) steps in finishing a wood surface.	5.1.2	Demonstration	
	The learner will recall how to stain a wood surface.	5.2.1	Recall orally the proper method of staining a wood surface.	5.2,1	Demonstration	
	The learner will demonstrate the proper method of staining a wood	5.2.2	Stain the surface of your produced product.	5.2.2	Custom Produced Product Stain	
	The learner will recall how to finish a wood surface.	5.3.1	Recall orally the proper procedure for finishing a wood surface.	5.3.1	Demonstration	
	The learner will demonstrate the proper procedure for finishing a wood surface.	5.3.2	Finish the wood surface of your custom produced product.	5.3.2	Custom Produced Product Brush or spray Finish	
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# FUNCTIONAL PERFORMANCE ANALYSIS

TERMINAL PERFORMANCE OBJECTIVE 5.0

#### INTERIM PERFORMANCE OBJECTIVE (5.4) - (5.5)

DEARNING STEPS	-NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	T IME REQ
			- Chairman and the state of the	The man	
The learner will recall those statements which describe a quality finish:	5.4.1	Recall orally those statements that describe a quality finish.	5.4.1	Lecture Sample Product	
= 21. The color of the wood finish is uniformly blended					
2. The surface of the product is smooth and free of laps or runs			-	in a special s	.*Hite etc.i
3. The finish covers all of the surface of the product					
The learner will evaluate the quality of the finish on his product.	5.4.2	Evaluate the finish on your product using the rating scale given in C.M. 5.4.	5.4.2	Learner's Custom Produced Product Rating Scale	
The learner will recall how to properly and safely clean and store the tools and materials used in finishing and staining.	5.5.1	Recall how to properly and safely store and clean the tools and materials	5.5.1	Demonstration	
macina used in implinik sud staninik.		used in finishing and staining,	20		
The learner will demonstrate how to afely clean and store the tools and naterials used in finishing.	5.5.2	Clean and store the materials used in staining and in finishing.	5.5.21	Solvent Rags Container Cleaner Safe Rag Container	

	A Second					
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47.11	美性类型形式 医抗性					

#### CONSTRUCTION

LE PERFORMANCE	•
VE NO6:0	
VE NO. V. 20.U.	Mass Production
	Mass Floduction
<b>的情感和感觉的话,</b> 这个时间,这个时间,然后就是一个人,	

ter will, with 80% proficiency, demonstrate his understanding of manufacturing and mass production ad will participate in a mass production activity.

INTERMEDIATE PERFORMANCE OBJECTIVES	No.	CRITERION MEASURES	
e learner will identify the four (4) erations by which men and chines change raw materials:	6.1	In writing, list the four (4) operations by which machines change raw materials.	men and
1. cutting	1		2 (2) (2) (2) (3)
2. forming		e de la companie de l	To the second and a second specific and a se
8. fastening	1,2 1	garanteen g Garanteen garanteen	
4. finishing		· <b>· · · · · · · · · · · · · · · · · · </b>	
American Land	1		
learner will recall and become iliar with several terms related	6.2	In writing, list seven (7) terms that relate to mas	s production.
dass production:		kan di kananan di kananan kan Kananan kananan kanan	is the or sendent
1 interchangeable 2. tolerance 3. assembly line	ere programment in the letter	The second of th	a kana a a a a a a a a a a a a a a a a a
4. flow chart 5. pilot model	·	***	
6. lead time 7. quality control	:		gand.
8. jigs and fixtures 9: inspection			
learner will recall the three (3)	6.3	Identify , by underlining, three (3) essentials form a list of statements given to you by your tea	
1. Material Resources 2. HumanResources 3. Capital Resources			cher.
		141	C-16



COURSE	AMERICAN INDUSTRY	
	CONSTRUCTION	
TENGENAL PERFORMANCE OBJECTIVE NO: 6.0	Mass Production	
	(Cont.)	

	COURSE	_AMERIC	AN INDUSTRY	
		CONST	RUCTION	
	NAI PERFORMANCE CIVE NO. 6.0	8 % s #	Mass Production	- 1
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HO:	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	g).
<b>5.4</b>	Given a demonstration of mass	6.4	Using the steps for manufacturing shown in the demonstrat	ion
	production steps, the learner will draw a flowchart of the		correctly place these steps on a flowchart form.	
	operation.			
	And the second s			
6.5	The learner will participate in a mass production activity.	6.5	Perform the operations at the work stations assigned you.	¬×
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	確定を使う。 ・ Table 1			
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TERMINAL PERFORMANCE OBJECTIVE 6.0

NO: LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA	SKLECTION	TIME REQ
The learner will recall to operations by which mechines change raw n	en and	Recall orally the four (4) operations by which men and machines change raw materials.	6.1.1	Lecture Textbook		
		is us				1 m
1.2 The learner will identify the four (4) operations machines change raw m	by which men	Identify, in writing, the four (4) operations by which men and machines change raw materials.	6.1.2	Lecture Textbook	• · · · · · · · · · · · · · · · · · · ·	
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TERMINAL PERFORMANCE OBJECTIVE 6,0

. XO 22	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	T IME REQ
2.1 2.1	The learner will recall several terms related to mass production.	6.2.1	Recall orally nine (9) terms that relate to mass production.	6.2.1	Lecture Textbook	
			· · · · · · · · · · · · · · · · · · ·			
22	The learner will identify nine (9) terms related to mass production.	6.2.2	Identify by underlining nine (9) terms related to mass production from list provided by your teacher.	6.2.2	Handout Lecture	
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TERMINAL PERFORMANCE OBJECTIVE 6.0

			CRITERION PERFORMANCE			TIM
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO,	METHOD/MEDIA SELECTION	REC
6.8.1	The learner will recall three (3) essentials of industry.	6.3.1	Recall orally the three (3) essentials of industry	6.3.1	Lecture Media Center Textbook	
6.3.2	The learner will identify the three (3) essentials of industry.	6.3.1	Identify, by underlining the three (3) essentials of industry in the list given to you by your instructer.	6.3.2	Hand out Lecture	
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TERMINAL PERFORMANCE OBJECTIVE 6.0

NO.	LEARNING STEPS	NO.	CRITERION PERFORMANCE EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	TIME REQ
6.4.1	The learner will recall the operation of a flowchart.	6.4.1	Recall orally three (3) operations of a flow chart.	6.4.1	Lecture Demonstration	
6.4.2	The learner will generate a flow chart.	6.4.2	Using the production steps for your mass produced product, correctly place these operations on the flow chart form provided by your teacher	6.4.2	Flow Chart Form	
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TERMINAL PERFORMANCE (	OBJECTIVE	6.0
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			CRITERION PERFORMANCE			TIM
NO.	LEARNING STEPS	NO.	EVALUATION (Response)	NO.	METHOD/MEDIA SELECTION	REQ
5.1	The learner will recall the operations	6.5.1	Recall orally the operations of the	6.5.1	Demonstration	
	of the work stations assigned.		work stations assigned.		Sample products Jigs ¼Fixtures	
					Hand 14Power Tools	
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	ş di,					
		0.50	70 Views	0.50	7 D 0 1	
5.2	The learner will identify the operation of the work stations assigned.	8 6.5.Z	During adry run with your instructor identify to him and properly perform	6.5.2	In Process Samples Work Station Jigs and Fixtures	
	and the summer of the summer o		operations at the work station.		Tools and Equipment	
						i i
5.3		6.5.3	Perform the operations at the work	6.5.3	Raw and In Process Materials	
	mass production activity.	13	station assigned to you during the mass production activity.		Work Station Jigs and Fixtures Tools and Equipment	
					4. 4.	
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#### AMERICAN INDUSTRIES

	CONSTRUCTION
	(x 4.167 - level 1-C)
Performance Objective No Intermediate Objective No	1.0 1.1 OCCUPATIONS
Source of your informationAuthor	
Edition date	·

(Do not write on this sheet)

Identify by underlining seven (7) occupations of the wood industry

Cabinetmaker
Barber
Rough Carpenter
Patternmaker
Painter
Brick Mason
Millworker
Roofer

Lunberman
Salesman
Forester
Forest Ranger
Parking Attendant
Tile Setter



#### AMERICAN INDUSTRIES

	·	CC	DISTRUCTION	
		(x 4.1	.67 - level 1- C)	
Performance Ob Intermediate Ob	jective No jective No	1.0 1.2	Occupations	
Source of your inf	formation _			
	Author _			
Ed	itíon date _			

(Do not write on this sheet)

Write a brief description of all of the seven (7) occupations given you by your instructor. Information may be obtained from your textbook, media center or guidance office.



	AMERICAN INDUSTRIES
	CONSTRUCTION
	(x 4.160 - level 3-C)
Performance Objective No. — Intermediate Objective No. —	2.0 Characteristics of Wood Materials
Source of your information  Author	
Edition date	
	(Do not write on this sheet)
Identify the four (4 the name of the woo	) samples of wood display by the teacher by matching od with the sample:
	SAMPLE NO. NAME
	Mahogany
	Pine
	Poplar
	Walnut



		AME	RICAN INDUSTRIES	
		and an interest of the second	CONSTRUCTION	
			(x 4.169 - level 2-	D)
<b>Performance</b> Object	ive No	2.0	Characteristics of III	
Intermediate Object	ive No	2.2	Characteristics of W	ood Materials
ource of your inform	nation			
Editio				
		(Do r	not write on this sheet)	•
List, ir	writing, the b	asic col	or and working ability	y of wood samples:
	NAME		COLOR	WORKABILITY
	Mahogany		1	
	Pine	. •		,
	Poplar	ţ		
	***	÷		
	Walnut			





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Danie	2.0		
Performance Objective No.	Characte	ristics of Wood Materials	
Intermediate Objective No.	2.3		
S			
Source of your information			
Author		•	
Edition date			
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eriore.	(	te still diracely	
Identify the	three (3) samples of manu	factured wood products displayed	bv the
teacher by m	tching the name of the	product with the sample:	•
		•	
	SAMPLE NO	NAME	
		IVAIVIE	
A second of the		***	
a f		Plywood	
		79. 14.9 00 0	
		Particle Board	
nest way	The state of the s	·	
<i></i>		Masonite	





#### AMERICAN INDUSTRIES

Performance Objective No. Intermediate Objective No.		CONSTRUCTION (x 4.161 - level 1-C)		
		3.0	HAND TOOLS	
Source of	your information			
	Author			
	Edition date	* .		

(Do not write on this sheet)

35 m

Identify the hand tools displayed by the teacher by placing the name tag for a tool on the correct tool in the display.



### AMERICAN INDUSTRIES

	CONSTRUCTION	
	(x 4.161 - level 1-C) (x 4.168 - level 2-D)	
Performance Objective No. Intermediate Objective No.	3.0 3.2 HAND TOOLS	
Source of your information		
Author		all the co
Edition date		_
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Clean and store three (3) tools given to you by your teacher.



#### AMERICAN INDUSTRIES

CONSTRUCTION	
(x 4.168 - level 2-A)	

Performance Objective No. Intermediate Objective No.		4.0 WOOD JOINING AND FASTENI	
Source of	your information		
	Author		
	Edition date		

(Do not write on this sheet)

Using a saw, square and hand plane, prepare stock to correct width and length. Drill any holes necessary with brace and correct size bit or hand drill and correct size of twist drill.



<b>MANUSUMAS PERMANERS INSTRUMENTATION PARAMETER</b> (MANUS TRANSPORT (MANUS TR		. *
	LEARNING PACKAGE	
	AMERICAN INDUSTRIES	
	CONSTRUCTION	
	(x 4.168 - level 2-A)	
Performance Objective No.	4.0	:
Intermediate Objective No.	WOOD JOINING AND FASTENING	, <del></del>
Source of your information		
Author Edition date		<b>.</b> .
<b>X</b>		•
	(Do not write on this sheet)	
Uning the correct p	procedure use a sanding block and sand the surfaces of wood stock.	
A STATE OF THE STA	1. sand first with 80 grit paper	•
	2. obtain 120 grit paper fromyour teacher sand wood stock again	
	3. obtain 220 grit paper from your teacher and final sand the wood stock	1 F.L

C-31



	LEARNING PACKAGE	
	AMERICAN INDUSTRIES	
	CONSTRUCTION	
	(x 4.168 - level 2-A)	
		•
Performance Objective No. Intermediate Objective No.	4.0 WOOD JOINING AND FASTENING	
ource of your information		
Author		
Edition date		*
	(Do not write on this sheet)	
	(20 not write on this sneet)	*
From the samples of with nails, screws, o	of joints shown you by your teacher, identify if it is put together	•
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#### AMERICAN INDUSTRIES

CONSTRUCTION	
(x 4.168 - level 2-4)	

Performance Objective No. Intermediate Objective No.	4.0 WOOD JOINING AND FASTENING
Source of your information	ge constant of the constant of
Author Edition date	

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Assemble your custom produced products using the correct procedure demonstrated to you by your teacher.



#### AMERICAN INDUSTRIES

CONSTRUCTION
(x 4.177 - level 1-B)
(x 4.173 - level 2-F)

Performance Objective No.	<b>4.0</b> ·
Intermediate Objective No.	4.5
Source of your information	
Author	
Edition date	

(Do not write on this sheet)

Evaluate your custom produced product for each of the quality statements below according to the rating scale provided.

te.	STATEMENT	RATING
1.	Parts are square and of proper length.	
2.	Parts are properly sanded smooth.	
3.	Assembly is tight and parts fit together smoothly.	

#### RATING SCALE

Excellent = 4 points

Good = 3 points

Average = 2 points

Poor = 1 point

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C-34



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And the second of the second o					
Using your assigned te	xtbook, briefly define th	e following three	(3) major steps in	n '	
applying a finish.	.1.			=	9.1(5) 17.7 18.1(4)
	1 staining		•		
	1. staining	i	. •	7	
	2. sealing	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	· -	1 X7		٠.	
	3. finishing				
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	AMERICAN INDUSTRIES
	CONSTRUCTION
	(x 4:161 - level 1-C) (x 4:168 - level 2-A)
eformance Objective No.	5.0 FINISHING 5.2
termediate Objective No.	
Author _	
	(Do not write on this sheet)
Apply stain to the w	ood surface of your custom produced product.
And the state of t	



#### AMERICAN INDUSTRIES

CONSTRUCTION
en e trades
(x 4.161 - level 1-C)
(x 4.168 - level 2-A)

Performance Objective No.

Intermediate Objective No.

Source of your information

Author

Edition date

(Do not write on this sheet)

Apply finish to the properly prepared and stained surface of your custom produced product.



#### AMERICAN INDUSTRIES

17	CONSTRUCTION	1.14	
	(x 4.172 - level 1-B)		
	(x 4.173 - level 2-F)		

Performance Objective No. 5.0
Intermediate Objective No. 5.4
Source of your information

Author

Edition date

(Do not write on this sheet)

Evaluate your custom produced product for each of the quality statements below according to the rating scale provided.

<u> </u>	RATING
1. The color of the wood finish is uniformly blended.	Excellent = 4 points
2. The surface of the product is smooth and free of laps or runs.	Good = 3 points
3. The finish covers all of the surface	Average = 2 points
of the rproduct.	Poor = 1 point



	LEARNING PACKAGE		
	AMERICAN INDUSTRIES		ta Îst
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	CONSTRUCTION	£ 11	100
	(x 4.161 - level 1-C)		
	(x 4.166 - level 2-G)		
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	LEARNING PACKAGE	•
	AMERICAN INDUSTRIES	
	CONSTRUCTION	
	(x 4.161 - level 1-C)	•
	6.0	
Performance Objective No.  Intermediate Objective No.	6.1 MASS PRODUCTION	· ·
Source of your information		=
Author		(April 1997)
Edition date		
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		•
	(Do not write on this sheet)	1.5
Identify, in writing raw materials.	s, the four (4) operations by which men a	nd machines change
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# AMERICAN INDUSTRIES CONSTRUCTION erformance Objective No. intermediate Objective No. of your information Author **Edition** date (Do not write on this sheet) identify nine (9) terms that relate to mass production. Interchangeable Lead Time Florida : . Assembly line Ferreous Plywood Tolerance Inspection Failure Pilot Model Jigs and Fixtures Hardware Flow Chart Assembly Line Daylight Saving Time Quality Control

#### AMERICAN INDUSTRIES

CONSTRUCTION (X 4.161-2<sub>G</sub>)

Performance Objective	No6	.0	(Mass Production)
Intermediate Objective	No6.	3	
Source of your informati	on		•
Auth	or		
Edition da	ite	<del></del>	

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Identify, by underlining, the three (3) essentials of industry in the list below

Natural Resources
Natural Foods
Human Race
Human Resources
Capital Resources
State Resources



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	LEARNING PACKAGE		
	AMERICAN INDUSTRIES	•	
		4.29	•
	CONSTRUCTION	•	
	(X-4.161-level 2-G) (X-4.163-level 3-C)		
		***	
Performance Objective No.	6.0 (Mass Production)	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Intermediate Objective No.	<b>6.4</b>	and the second	
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Author			
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#### AMERICAN INDUSTRIES

	CONSTRUCTION (X-4.160-level 3C) (X-4.161-level 2G)
Performance Objective No. Intermediate Objective No.	6.0 (Mass Production)
Source of your information Author Edition date	

(Do not write on this sheet)

Perform the operations at the work station assigned to you.



# IDEAS FOR CUSTOM OR MASS PRODUCED PRODUCT

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